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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/020,848 | 12/12/2001 | Barnes Cooper | ITL.0675US | 1071 |

7590 07/03/2003

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EXAMINER

CABRERA, ZOILA E

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

2125

DATE MAILED: 07/03/2003

2

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/020,848

Applicant(s)

COOPER, BARNES

Examiner

Zoila E. Cabrera

Art Unit

2125

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-8, 10, 11-18, 20, 21-28 and 30 are rejected under 35 U.S.C. 102(a) as being anticipated by **Inoue (EP 1085399)**.

Regarding claims 1, 11 and 21 **Inoue** discloses a method and a system comprising:

- detecting that a processor's frequency has changed in response to processor cooling (Col. 11, lines 38-51; Fig. 6, i.e., when the temperature drop has been recognized at step T1, the generated clock frequency determination signal is supplied to the clock generator unit); and generating an interrupt in response to the detection of the frequency change (Col. 10, lines 44-46, i.e., the interruption processing may employ the change in the clock frequency of the clock signal supplied to the CPU).

As for claims 2-8, 10, 12-18, 20, 22-28 and 30, **Inoue** further discloses,

- providing an interrupt to an operating system (Col. 7, lines 43-47);
- reading the performance state of the processor in response to the interrupt (Col. 8, lines 31-42);

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- determining a new performance state (Col. 11, lines 38-51; Fig. 6, i.e., Set Moderate Frequency, Set lower Frequency, Set Maximum Frequency);
- scheduling a bandwidth allocation (Col. 10, lines 51-55; Col. 11, lines 15-20 and lines 38-41);
- setting up a periodic timer (Fig. 3, element 25);
- monitoring the processor temperature at periodic intervals (Fig. 4, and 7, step S1; Figs. 6 and 8, Step T1);
- detecting a high temperature or a low temperature interrupt and reading the processor performance state in response to the detection of a high temperature or a low temperature interrupt (Fig. 3, element 18, 48, 17; Col. 8, lines 36-41; Col. 10, lines 12-20);
- using hardware controlled throttling (Col. 9, lines 46-49).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9, 19 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Inoue** as applied to claims 1, 11 and 21 above, and further in view of **Moriyama** (US 6,510,400).

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Inoue discloses the limitations of claims 1, 11, and 21 above but fail to specifically disclose, regarding claims 9, 19 and 29, detecting a frequency change includes detecting a processor phase locked loop event. However, **Moriyama** discloses detecting a processor phase locked loop event (Col. 5, lines 6-10). Therefore, it would have been obvious to a person of the ordinary skill in the art at the time the invention was made to combine the teachings of **Inoue** with **Moriyama** because it would provide with a SWEEP function for gradually varying the clock frequency (Col. 5, lines 7-11).

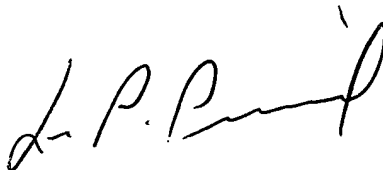
Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning communication or earlier communication from the examiner should be directed to Zoila Cabrera, whose telephone number is (703) 306-4768. The examiner can normally be reached on M-F from 8:00 a.m. to 5:30 p.m. EST (every other Friday).

If attempts to reach the examiner by phone fail, the examiner's supervisor, Leo Picard, can be reached on (703) 308-0538. Additionally, the fax phones for Art Unit 2125 are (703) 308-6306 or 308-6296. Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist at (703) 305-9600.

Zoila Cabrera
Patent Examiner
6/27/03



LEO PICARD
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100